IRON AND STEEL ENGINEER INDEX FOR 1945

Herewith is presented the index of all authors and papers published in the IRON AND STEEL ENGINEER for the year 1945

LIST OF AUTHORS

A

ASCHER, R. C. — "Maintenance of Flow Meters," September, 1945, Page 87.
AUBURN, B. J., and BURT, F. R. — "Increasing the Power on Existing Cold Strip Mills," April, 1945, Page 46.

B

BAILEY, C. A. — "Organization of a Lubrication Department," September, 1945, Page 54.
BARRETT, J. C. — "The Flash Welding of Steel," December, 1945, Page 103.
BAUMER, S. D. — "Welding and Cutting in Steel Plant Maintenance," February, 1945, Page 80.
BEESWY, R. L. — "Safety Practices," October, 1945, Page 77.
BELLEW, G. E. — "Some Developments in Oxyacetylene Applications," October, 1945, Page 62.
BEYNON, ROSS E. — "Structural Mills and Structural Roll Designing," February, 1945, Page 35.
BOWERS, G. F. — "Current Developments in Industrial Lubricants," January, 1945, Page 48.
BRIGHTON, K. W. — "The Outlook for Electrolytic Tin Plate," August, 1945, Page 37.
BURR, W. H. — "Developments in the Iron and Steel Industry During 1944," January, 1945, Page 80.
BURT, F. R., and AUBURN, B. J. — "Increasing the Power on Existing Cold Strip Mills," April, 1945, Page 46.

C

CAMBEST, F. F. — "Billet Preparations for Rolling Mills," June, 1945, Page 59.
CAMPBELL, J. D. — "The Amplidyne Generator from an Application Standpoint," May, 1945, Page 54.
CARMICHAEL, E. S., and ROEHNER, T. G. — "Demulsifiers in Circulating Oil Systems," May, 1945, Page 62.
CASSELS, CLYDE S. — "Some Production and Maintenance Instruments," September, 1945, Page 97.
CLARK, H., and FERRIS, G. A. — "Process Control in the Production of Sulphur Steel," July, 1945, Page 37.
COOK, NELSON E. — "Cleaning Steel for Subsequent Coating," April, 1945, Page 53.
COX, HAROLD C., HELM, H. B., KOPSA, L. F., LEISS, PAUL E., and LYTLE, R. A. — Symposium — "Disposition of Coke Oven Gas and Blast Furnace Gas," August, 1945, Page 71.
CRAMER, F. W., MORTON, L. W., and DARLING, A. G. — "The Electronic Frequency Changer," January, 1945, Page 52.

D

DARLING, A. G., CRAMER, F. W., and MORTON, L. W. — "The Electronic Frequency Changer," February, 1945, Page 52.
DUBY, C. J. — "Design and Operation of Modern Sintering Plants," May, 1945, Page 39.
DUFFY, J. J., Jr. — "Cleaning Steel for Subsequent Coatings," April, 1945, Page 55.
DUGAN, J. M., and GRIFFITHS, G. D. — "The Accelerated Cooling of Cast Steels," January, 1945, Page 68.

E

EICHENBERG, C. L. — "Relay Protection for Steel Plant Systems," July, 1945, Page 46.
ENTWISLE, E. F. — "The Iron and Steel Industry on the Niagara Frontier," January, 1945, Page 93.
ERICSON, A. G. — The Universal Slabbing Mill at Homestead," March, 1945, Page 35.
ESS, T. J. — "Kaiser Builds at Fontana," April, 1945, Page K-22.

F

FARAGHER, P. V. — "Aluminum — During the War and After," June, 1945, Page 76.
FARRELL, F. C. — "A History of the Iron and Steel Industry," January, 1945, Page 99.
FAY, MERVIN A. — "Refractories Performance Records," September, 1945, Page 101.
FERRIS, G. A., and CLARK, H. — "Process Control in the Production of Sulphur Steel," July, 1945, Page 37.
FOIGHT, C. D. — "Water Supply," September, 1945, Page 57.
FOX, GORDON — "The Blast Furnace Skip Hoist — II," March, 1945 Page 55.

FRANZ, A. F. — "Cleaning Open Hearth Checkers by Vacuum," September, 1945, Page 108.
FREEMARK, K. M. — "Instruments in the Steel Industry," September, 1945, Page 84.
FROST, B. B. — "The Performance of Large Hot Blast Stoves," February, 1945, Page 64.

G

GARRIOTT, F. E. — "Aluminum Bronze Welding in Steel Plant Maintenance," December, 1945, Page 98.
GIBSON, A. E. — "Ore and Coal Handling on the Lower Lakes," May, 1945, Page 77.
GILG, F. X. — Blast Furnace Gas — Wet Washed or Dry Cleaned," March, 1945, Page 47.
GREEN, J. R., and VOLLRATH, J. P. — "Reversing Regenerative Furnaces," April, 1945, Page 67.
GREENBERGER, J. I. — "Electrolytic Cleaning Lines," April, 1945, Page 57.
GRIFFITHS, G. D., and DUGAN, J. M. — "The Accelerated Cooling of Cast Steels," January, 1945, Page 68.

H

HALL, H. S. — "Pit Furnaces at Lukens," October, 1945, Page 81.
HALSTEAD, HOWARD L. — "Tin Fusion by Radiant Tube Heating," August, 1945, Page 49.
HARWOOD, P. B. — "Unusual Applications of Motor Control," June, 1945, Page 50.
HAYES, WHITNEY — "Telautograph Communication Service," May, 1945, Page 75.
HELLSTROM, A. S. — "Continuous Pickler for Coiled Material," August, 1945, Page 59.
HELM, H. B., KOPSA, L. F., LEISS, PAUL E., LYTLE, R. A., and COX, HAROLD C. — Symposium — "Disposition of Coke Oven Gas and Blast Furnace Gas," August, 1945, Page 71.
HILL, J. B. — "Coke Oven and Blast Furnace Operation," June, 1945, Page 71.
HISLEY, D. G. — "Determination of Dust in Blast Furnace Gas," June, 1945, Page 47.
HOBBS, M. H. — "Progress in Switchgear Engineering," August, 1945, Page 62.
HOFFERT, J. R. — "What Stream Conservation Means to the Iron and Steel Industry," July, 1945, Page 77.
HOFFMAN, WADE F. — "Rolling Mill Guides," November, 1945, Page 69.
HOLTSLANDER, V. E. — "Maintenance and Repair of Lifting Magnets," September, 1945, Page 65.
HOMER, C. E. — "Protection for A-c and D-c Motors," September, 1945, Page 70.
HOOD, CLIFFORD F. — "Engineering Postwar Industry," December, 1945, Page 62.
HOOVER, D. B. — "Shaft Currents May Cause Bearing Failure," September, 1945, Page 72.
HOWRY, A. D. — "The Rectifier Installation at Alan Wood Steel Company," July, 1945, Page 62.

J

JACKSON, J. A., and WHITING, M. A. — "An Improved System of Electric Drive for Cranes," March, 1945, Page 63.
JOHNSON, LANE — "A Modern Strip Pickling Plant," April, 1945, Page 58.

K

KAUFFELD, T. J. — "Something New in Remote Control," April, 1945, Page 61.
KIMBALL, A. W. — "Rototrol Regulating Systems," November, 1945, Page 80.
KOPSA, L. F., LEISS, PAUL E., LYTLE, R. A., COX, HAROLD C., and HELM, H. B. — Symposium — "Disposition of Coke Oven Gas and Blast Furnace Gas," August, 1945, Page 71.

L

LARSEN, B. M., and SIDDALL, C. — "Theoretical Limiting Efficiency of Various Fuels in the Open Hearth," December, 1945, Page 76.
LEISS, PAUL E., LYTLE, R. A., COX, HAROLD C., HELM, H. B., and KOPSA, L. F. — Symposium — "Disposition of Coke Oven Gas and Blast Furnace Gas," August, 1945, Page 71.

LESSO, H. F., and McCANN, R. W. — "Influence of the Charge Upon Open Hearth Furnaces," October, 1945, Page 37.
LILLQUIST, A. E. — "Selection and Maintenance of Magnetic Brakes," February, 1945, Page 53.
LLOYD, D. W., and MAHANEY, E. W. — "Quality Control Testing of Semi-Finished Bars," November, 1945, Page 48.
LOUX, J. H. — "Developments in Rotary Hearth Furnaces," July, 1945, Page 52.
LOVITT, L. E. — "Storage and Handling of Lubricants," September, 1945, Page 52.
LUCAS, JOHN — "Modern Electric Weld Tube Mills," October, 1945, Page 50.
LUHRS, J. F. — "Continuous Determination of Oxygen and Combustibles," May, 1945, Page 45.
LYTLE, R. A., COX, HAROLD C., HELM, H. B., KOPSA, L. F., and LEISS, PAUL E. — Symposium — "Disposition of Coke Oven Gas and Blast Furnace Gas," August, 1945, Page 71.

M

McBRIDE, J. E. — "The Place and Effect of Conveyor Equipment in Industry," February, 1945, Page 70.
McCANN, R. W., and LESSO, H. F. — "Influence of the Charge Upon Open Hearth Furnaces," October, 1945, Page 37.
McHUGH, J. L., and PEARSALL, L. T. — "The Training of Heaters," November, 1945, Page 59.
McKEEVER, PAUL — "Improved Commutator Design," September, 1945, Page 50.
McLEAN, D. W. — "Steel Plant Maintenance," September, 1945, Page 75.
MAHANEY, E. W., and LLOYD, D. W. — "Quality Control Testing of Semi-Finished Bars," November, 1945, Page 48.
MILLARD, F. C. — "Communication in Industrial Plants," May, 1945, Page 69.
MOFFETT, G. A. — "Overload Protection for Mill-Type D-c Auxiliary Motors," December, 1945, Page 67.
MOHLER, F. — "Rectifiers in the Steel Industry," October, 1945, Page 66.
MORTON, L. W., DARLING, A. G., and CRAMER, F. W. — "The Electronic Frequency Changer," January, 1945, Page 52.
MUELLER, P. M. — "The Krause Mill Reduction Line," June, 1945, Page 37.
MURTON, A. E. — "Roll Manufacture and Application," November, 1945, Page 51.

P

PARK, GEORGE R. — "Improved Babbitting Methods," September, 1945, Page 48.
PEARSALL, L. T., and McHUGH, J. L. — "The Training of Heaters," November, 1945, Page 59.
PORTER, G. A. — "Mechanical Maintenance in Steam-Electric Generating Stations," September, 1945, Page 80.
PRITCHARD, C. E. — "Additives in Oil for the Steel Plant," March, 1945, Page 75.
PUGSLEY, H. J. — "New Open Hearth Furnaces at Homestead," February, 1945, Page 89.

R

RAISIG, CHARLES L. — "Cooling Beds and Transfers," November, 1945, Page 37.
RICHARDSON, N. W. — "The Manufacture of Butt-Welded Pipe," November, 1945, Page 64.
ROBERSON, FRANK — "Electronic Controls," October, 1945, Page 59.
ROEHNER, T. G., and CARMICHAEL, E. S. — "Demulsifiers in Circulating Oil Systems," May, 1945, Page 62.
ROSA, J. A. — "Alloy Steels for Maintenance," September, 1945, Page 37.

S

SATTERLEE, W. W. — "Some Developments in Modern Transformer Design," June, 1945, Page 62.
SHIMMIN, J. A. — "Maintenance," September, 1945, Page 79.
SIDDALL, C., and LARSEN, B. M. — "Theoretical Limiting Efficiency of Various Fuels in the Open Hearth," December, 1945, Page 76.
SIDLER, PAUL R. — "Gas Turbines for Blast Furnace Blowers," April, 1945, Page 35.
SIMON, W. K. — "Steel Plant Welding," September, 1945, Page 92.
SMITH, V. A. — "Lubricants in Maintenance," September, 1945, Page 85.
STEWART, JOHN — "Electrical Maintenance," September, 1945, Page 82.
STONE, M. D. — "The Uni-Temper Mill and Process," January, 1945, Page 37.
SUNDBLAD, FOLKE — "The Mechanical Phase of Open Hearth Steel Manufacture," August, 1945, Page 51.

T

TIMBY, T. G. — "Some Factors in the Production of Electrolytic Tin Plate," August, 1945, Page 40.

V

VOLLRATH, J. P., and GREEN, J. R. — "Reversing Regenerative Furnaces," April, 1945, Page 67.

W

WASSERMAN, R. D. — "Low Temperature Welding in Steel Plant Maintenance," March, 1945, Page 70.
WATSON, H. L., Jr. — "Salvaging Forged Alloy Steel Rolls," December, 1945, Page 55.
WHITING, M. A., and JACKSON, J. A. — "An Improved System of Electric Drive for Cranes," March, 1945, Page 63.
WICKS, H. O. — "Production of Light-Weight Blast Furnace Slag," July, 1945, Page 71.

LIST OF SUBJECTS

A

"Accelerated Cooling of Cast Steels, The" — By J. M. DUGAN and G. D. GRIFFITHS, January, 1945, Page 68.
"Additives in Oil for the Steel Plant" — By C. E. PRITCHARD, March, 1945, Page 75.
"A. I. S. E. Standard Design for Crane Shaft Couplings" — September, 1945, Page 90.
"Alan Wood Steel Company, The Rectifier Installation at" — By A. D. HOWRY, July, 1945, Page 62.
"Alloy Steels for Maintenance" — By J. A. Rosa, September, 1945, Page 37.
"Aluminum Bronze Welding in Steel Plant Maintenance" — By F. E. GARRIOTT, December, 1945, Page 98.
"Aluminum — During the War and After" — By P. V. Faragher, June, 1945, Page 76.
"Amplidyne Generator from an Application Standpoint, The" — By J. D. CAMPBELL, May, 1945, Page 54.
"Application, Roll Manufacture and" — By A. E. MURTON, November, 1945, Page 51.

B

"Babbitting Methods, Improved" — By GEORGE R. PARK, September, 1945, Page 48.
"Bars, Quality Control Testing of Semi-Finished" — By E. W. MAHANEY and D. W. LLOYD, November, 1945, Page 48.
"Bearing Failure, Shaft Currents May Cause" — By D. B. HOOVER, September, 1945, Page 72.
"Beds and Transfers, Cooling" — By CHARLES L. RAISIG, November, 1945, Page 37.
"Billet Preparation for Rolling Mills" — By F. F. CAMBEST, June, 1945, Page 59.
"Blast Furnace Blowers, Gas Turbines for" — By PAUL R. SIDLER, April, 1945, Page 35.
"Blast Furnace Gas, Determination of Dust in" — By D. G. HISLEY, June, 1945, Page 47.
"Blast Furnace Gas, Symposium — Disposition of Coke Oven Gas and" — By PAUL E. LEISS, R. A. LYTLE, HAROLD C. COX, H. B. HELM, and L. F. KOPSA, August, 1945, Page 71.
"Blast Furnace Gas — Wet Washed or Dry Cleaned?" — By F. X. GILG, March, 1945, Page 47.
"Blast Furnace Operation, Coke Oven and" — By J. B. HILL, June, 1945, Page 71.
"Blast Furnace Skip Hoist — II, The" — By GORDON FOX, March, 1945, Page 55.
"Blast Furnace Slag, Production of Light-Weight" — By H. O. WICKS, July, 1945, Page 71.
"Blast Stoves, The Performance of Large Hot" — By B. B. FROST, February, 1945, Page 64.
"Blowers, Gas Turbines for Blast Furnace" — By PAUL R. SIDLER, April, 1945, Page 35.
"Brakes, Selection and Maintenance of Magnetic" — By A. E. LILLQUIST, February, 1945, Page 53
"Bronze Welding in Steel Plant Maintenance, Aluminum" — By F. E. GARRIOTT, December, 1945, Page 98.
"Butt-Welded Pipe, The Manufacture of" — By N. W. Richardson, November, 1945, Page 64.

C

"Checkers by Vacuum, Cleaning Open Hearth" — By A. F. FRANZ, September, 1945, Page 108.
"Cleaning Open Hearth Checkers by Vacuum" — By A. F. FRANZ, September, 1945, Page 108.
"Cleaning Steel for Subsequent Coating" — By NELSON E. COOK, April, 1945, Page 53.
"Cleaning Steel for Subsequent Coatings" — By J. J. DUFFY, Jr., April, 1945, Page 55.
"Coal Handling on the Lower Lakes" — By A. E. Gibson, May, 1945, Page 77.
"Coiled Material, Continuous Pickler for" — By A. S. HELLSTROM, August, 1945, Page 59.
"Coke Oven and Blast Furnace Operation" — By J. B. HILL, June, 1945, Page 71.
"Coke Oven Gas and Blast Furnace Gas, Symposium — Disposition of" — By PAUL E. LEISS, R. A. LYTLE, HAROLD C. COX, H. B. HELM, and L. F. KOPSA, August, 1945, Page 71.
"Cold Strip Mills, Increasing the Power on Existing" — By F. R. BURT and B. J. AUBURN, April, 1945, Page 46.
"Combustibles, Continuous Determination of Oxygen and" — By J. F. LUHRS, May, 1945, Page 45.
"Communication in Industrial Plants" — By F. C. Millard, May, 1945, Page 69.

"Communication Service, Telautograph" — By WHITNEY HAYES, May, 1945, Page 75.
"Commutator Design, Improved" — By PAUL McKEEVER, September, 1945, Page 50.
"Continuous Determination of Oxygen and Combustibles" — By J. F. LUHRS, May, 1945, Page 45.
"Continuous Pickler for Coiled Material" — By A. S. HELLSTROM, August, 1945, Page 59.
"Control, Unusual Applications of Motor" — By P. B. HARWOOD, June, 1945, Page 50.
"Controls, Electronic" — By FRANK ROBERSON, October, 1945, Page 59.
"Cooling Beds and Transfers" — By CHARLES L. RAISIG, November, 1945, Page 37.
"Couplings, A. I. S. E. Standard Design for Crane Shaft" — September, 1945, Page 90.
"Crane Shaft Couplings, A. I. S. E. Standard Design for" — September, 1945, Page 90.
"Cranes, An Improved System of Electric Drive for" — By J. A. JACKSON and M. A. WHITING, March, 1945, Page 63.
"Current Developments in Industrial Lubricants" — By G. F. BOWERS, January, 1945, Page 48.
"Cast Steels, The Accelerated Cooling of" — By J. M. DUGAN and G. D. GRIFFITHS, January, 1945, Page 68.
"Conveyor Equipment in Industry, The Place and Effect of" — By J. E. McBRIDE, February, 1945, Page 70.
"Cutting in Steel Plant Maintenance, Welding and" — By S. D. BAUMER, February, 1945, Page 80.

D

"Demulsifiers in Circulating Oil Systems" — By T. G. ROEHNER and E. S. CARMICHAEL, May, 1945, Page 62.
"Design and Operation of Modern Sintering Plants" — By C. J. DUBY, May, 1945, Page 39.
"Determination of Dust in Blast Furnace Gas" — By D. G. HISLEY, June, 1945, Page 47.
"Developments in the Iron and Steel Industry During 1944" — By W. H. BURR, January, 1945, Page 80.
"Developments in Rotary Hearth Furnaces" — By J. H. LOUX, July, 1945, Page 52.
"Disposition of Coke Oven Gas and Blast Furnace Gas, Symposium" — By PAUL E. LEISS, R. A. LYTLE, HAROLD C. COX, H. B. HELM, and L. F. KOPSA, August, 1945, Page 71.
"Dust in Blast Furnace Gas, Determination of" — By D. G. HISLEY, June, 1945, Page 47.

E

"Electric Drive for Cranes, An Improved System of" — By J. A. JACKSON and M. A. WHITING, March, 1945, Page 63.
"Electric Weld Tube Mills, Modern" — By JOHN LUCAS, October, 1945, Page 50.
"Electrical Maintenance" — By JOHN STEWART, September, 1945, Page 82.
"Electrolytic Cleaning Lines" — By J. I. GREENBERGER, April, 1945, Page 57.
"Electrolytic Tin Plate, Some Factors in the Production of" — By T. G. TIMBY, August, 1945, Page 40.
"Electrolytic Tin Plate, The Outlook for" — By K. W. BRIGHTON, August, 1945, Page 37.
"Electronic Controls" — By FRANK ROBERSON, October, 1945, Page 59.
"Electronic Frequency Changer, The" — By F. W. CRAMER, L. W. MORTON and A. G. DARLING, January, 1945, Page 52.
"Engineering Postwar Industry" — By CLIFFORD F. HOOD, December, 1945, Page 62.

F

"Flash Welding of Steel, The" — By J. C. BARRETT, December, 1945, Page 103.
"Flow Meters, Maintenance of" — By R. C. ASCHER, September, 1945, Page 87.
"Fontana, Kaiser Builds at" — By T J. ESS, April, 1945, Page K-22.
"Forged Alloy Steel Rolls, Salvaging" — By H. L. WATSON, Jr., December, 1945, Page 55.
"Frequency Changer, The Electronic" — By F. W. CRAMER, L. W. MORTON and A. G. DARLING, January, 1945, Page 52.
"Fuels in the Open Hearth, Theoretical Limiting Efficiency of Various" — By B. M. LARSEN and C. SIDDALL, December, 1945, Page 76.
"Furnace Blowers, Gas Turbines for Blast" — By PAUL R. SIDLER, April, 1945, Page 35.
"Furnace Gas — Wet Washed or Dry Cleaned, Blast" — By F. X. GILG, March, 1945, Page 47.
"Furnace Skip Hoist — II, The Blast" — By GORDON FOX, March, 1945, Page 55.
"Furnaces at Homestead, New Open Hearth" — By H. J. PUGSLEY, February, 1945, Page 89.
"Furnaces at Lukens, Pit" — By H. S. HALL, October, 1945, Page 81.
"Furnaces, Developments in Rotary Hearth" — By J. H. LOUX, July, 1945, Page 52.
"Furnaces, Influence of the Charge upon Open Hearth" — By H. F. LESSO and R. W. McCANN, October, 1945, Page 37.
"Furnaces, Reversing Regenerative" — By J. R. GREEN and J. P. VOLLRATH, April, 1945, Page 67.
"Fusion by Radiant Tube Heating, Tin" — By HOWARD L. HALSTEAD, August, 1945, Page 49.

G

"Gas, Determination of Dust in Blast Furnace" — By D. G. HISLEY, June, 1945, Page 47.
"Gas Holders, Vessels and Lines, Safety Procedure Cleaning and Repairing Tanks" — August, 1945, Page 81.
"Gas, Symposium — Disposition of Coke Oven Gas and Blast Furnace" — By PAUL E. LEISS, R. A. LYTLE, HAROLD C. COX, H. B. HELM and L. F. KOPSA, August, 1945, Page 71.
"Gas Turbines for Blast Furnace Blowers" — By PAUL R. SIDLER, April, 1945, Page 35.
"Gas — Wet Washed or Dry Cleaned, Blast Furnace" — By F. X. GILG, March, 1945, Page 47.
"Generator from an Application Standpoint, The Amplidyne" — By J. D. CAMPBELL, May, 1945, Page 54.
"Guides, Rolling Mill" — By WADE F. HOFFMAN, November, 1945, Page 69.

H

"Heaters, The Training of" — By L. T. PEARSALL and J. L. McHUGH, November, 1945, Page 59.
"History of the Iron and Steel Industry, A" — By F. C. FARRELL, January, 1945, Page 99.
"Hoist — II, The Blast Furnace Skip" — By GORDON FOX, March, 1945, Page 55.
"Homestead, New Open Hearth Furnaces at" — By H. J. PUGSLEY, February, 1945, Page 89.
"Homestead, The Universal Slabbing Mill at" — By A. G. ERICSON, March, 1945, Page 35

I

"Improved Babbitting Methods" — By GEORGE R. PARK, September, 1945, Page 48.
"Improved Commutator Design" — By PAUL McKEEVER, September, 1945, Page 50.
"Increasing the Power on Existing Cold Strip Mills" — By F. R. BURT and B. J. AUBURN, April, 1945, Page 46
"Industrial Lubricants, Current Developments in" — By G. F. BOWERS, January, 1945, Page 48.
"Industry, Engineering Postwar" — By CLIFFORD F. HOOD, December, 1945, Page 62.
"Influence of the Charge upon Open Hearth Furnaces" — By H. F. LESSO and R. W. McCANN, October, 1945, Page 37.
"Instruments in the Steel Industry" — By K. M. FREEMARK, September, 1945, Page 84.
"Instruments, Some Production and Maintenance" — By CLYDE S. CASSELS, September, 1945, Page 97.
"Iron and Steel Industry, A History of the" — By F. C. FARRELL, January, 1945, Page 99.
"Iron and Steel Industry During 1944, Developments in the" — By W. H. BURR, January, 1945, Page 80.
"Iron and Steel Industry on the Niagara Frontier, The" — By E. F. ENTWISLE, January, 1945, Page 93.

K

"Kaiser Builds at Fontana" — By T. J. ESS, April, 1945, K-22.
"Krause Mill Reduction Line, The" — By P. M. MUELLER, June, 1945, Page 37.

L

"Lifting Magnets, Maintenance and Repair of" — By V. E. HOLTSLANDER, September, 1945, Page 65.
"Low Temperature Welding in Steel Plant Maintenance" — By R. D. WASSERMAN, March, 1945, Page 70.
"Lubricants, Current Developments in Industrial" — By G. F. BOWERS, January, 1945, Page 48.
"Lubricants in Maintenance" — By V. A. SMITH, September, 1945, Page 85.
"Lubricants, Storage and Handling of" — By L. E. LOVITT, September, 1945, Page 52.
Lubrication Department, Organization of a" — By C. A. BAILEY, September, 1945, Page 54.
"Lukens, Pit Furnaces at" — By H. S. HALL, October, 1945, Page 81.

M

"Magnetic Brakes, Selection and Maintenance of" — By A. E. LILLQUIST, February, 1945, Page 53.
"Magnets, Maintenance and Repair of Lifting" — By V. E. HOLTSLANDER, September, 1945, Page 65.
"Maintenance" — By J. A. SHIMMIN, September, 1945, Page 79.
"Maintenance, Alloy Steels for" — By J. A. ROSA, September, 1945, Page 37.
"Maintenance, Aluminum Bronze Welding in Steel Plant" — By F. E. GARRIOTT, December, 1945, Page 98.
"Maintenance and Repair of Lifting Magnets" — By V. E. HOLTSLANDER, September, 1945, Page 65.

"Maintenance, Electrical" — By John Stewart, September, 1945, Page 82.
"Maintenance in Steam-Electric Generating Stations, Mechanical" — By G. A. PORTER, September, 1945, Page 80.
"Maintenance, Low Temperature Welding in Steel Plant" — By R. D. WASSERMAN, March, 1945, Page 70.
"Maintenance, Lubricants in" — By V. A. SMITH, September, 1945, Page 85.
"Maintenance of Flow Meters" — By R. C. ASCHER, September, 1945, Page 87.
"Maintenance of Magnetic Brakes, Selection and" — By A. E. LILLQUIST, February, 1945, Page 53.
"Maintenance, Steel Plant" — By D. W. McLEAN, September, 1945, Page 75.
"Maintenance Symposium" — By J. A. SHIMMIN, G. A. PORTER, JOHN STEWART, K. M. FREEMARK, V. A. SMITH and R. C. ASCHER, September, 1945, Page 79.
"Maintenance Tool, Metallizing — A" — September, 1945, Page 46.
"Maintenance, Welding and Cutting in Steel Plant" — By S. D. BAUMER, February, 1945, Page 80.
"Manufacture and Application, Roll" — By A. E. MURTON, November, 1945, Page 51.
"Manufacture of Butt-Welded Pipe, The" — By N. W. RICHARDSON, November, 1945, Page 64.
"Mechanical Maintenance in Steam-Electric Generating Stations" — By G. A. PORTER, September, 1945, Page 80.
"Mechanical Phase of Open Hearth Steel Manufacture, The" — By FOLKE SUNDBLAD, August, 1945, Page 51.
"Metallizing — A Maintenance Tool" — September, 1945, Page 46.
"Mill and Process, The Uni-Temper" — By M. D. STONE, January, 1945, Page 37.
"Mill at Homestead, The Universal Slabbing" — By A. G. ERICSON, March, 1945, Page 35.
"Mill for Pittsburgh Steel, New Seamless Tube" — April, 1945, Page 78.
"Mill Reduction Line, The Krause" — By P. M. MUELLER, June, 1945, Page 37.
"Mills and Structural Roll Designing, Structural" — By ROSS E. BEYNON, February, 1945, Page 35.
"Mills, Increasing the Power on Existing Cold Strip" — By F. R. BURT and B. J. AUBURN, April, 1945, Page 46.
"Mill-Type D-c Auxiliary Motors, Overload Protection for" — By G. A. MOFFETT, December, 1945, Page 67.
"Modern Electric Weld Tube Mills" — By JOHN LUCAS, October, 1945, Page 50.
"Modern Strip Pickling Plant, A" — By LANE JOHNSON, April, 1945, Page 58.
"Motor Control, Unusual Applications of" — By P. B. HARWOOD, June, 1945, Page 50.
"Motors, Overload Protection for Mill-Type D-c Auxiliary" — By G. A. MOFFETT, December, 1945, Page 67.
"Motors, Protection for A-c and D-c" — By C. E. HOMER, September, 1945, Page 70.

N

"New Open Hearth Furnaces at Homestead" — By H. J. PUGSLEY, February, 1945, Page 89.
"Niagara Frontier, The Iron and Steel Industry on the" — By E. F. ENTWISLE, January, 1945, Page 93.
"New Seamless Tube Mill for Pittsburgh Steel" — April, 1945, Page 78.

O

"Oil for the Steel Plant, Additives in" — By C. E. PRITCHARD, March, 1945 Page 75.
"Oil Systems, Demulsifiers in Circulating" — By T. G. ROEHNER and E. S. CARMICHAEL, May, 1945, Page 62.
"Open Hearth Checkers by Vacuum, Cleaning" — By A. F. FRANZ ,September, 1945, Page 108.
"Open Hearth Furnaces at Homestead, New" — By H. J. PUGSLEY, February, 1945, Page 89.
"Open Hearth Furnaces, Influence of the Charge upon" — By H. F. LESSO and R. W. McCANN, October, 1945, Page 37.
"Open Hearth Steel Manufacture, The Mechanical Phase of" — By FOLKE SUNDBLAD, August, 1945, Page 51.
"Open Hearth, Theoretical Limiting Efficiency of Various Fuels in the" — By B. M. LARSEN and C. SIDDALL, December, 1945, Page 76.
"Ore and Coal Handling on the Lower Lakes" — By A. E. GIBSON, May, 1945, Page 77.
"Organization of a Lubrication Department" — By C. A. BAILEY, September, 1945, Page 54.
"Outlook for Electrolytic Tin Plate, The" — By K. W. BRIGHTON, August, 1945, Page 37.
"Overload Protection for Mill-Type D-c Auxiliary Motors" — By G. A. MOFFETT, December, 1945, Page 67.
"Oxyacetylene Applications, Some Developments in" — By G. E. BELLEW, October, 1945, Page 62.
"Oxygen and Combustibles, Continuous Determination of" — By J. F. LUHRS, May, 1945, Page 45.

P

"Performance of Large Hot Blast Stoves, The" — By B. B. FROST, February, 1945, Page 64.
"Pickler for Coiled Material, Continuous" — By A. S. HELLSTROM, August, 1945, Page 59.
"Pickling Plant, A Modern Strip" — By LANE JOHNSON, April, 1945, Page 58.
"Pipe, The Manufacture of Butt-Welded" — By N. W. RICHARDSON, November, 1945, Page 64.
"Pit Furnaces at Lukens" — By H. S. HALL, October, 1945, Page 81.
"Pittsburgh Steel, New Seamless Tube Mill for" — April, 1945, Page 78.
"Plants, Communication in Industrial" — By F. C. MILLARD, May, 1945, Page 69.
"Place and Effect of Conveyor Equipment in Industry, The" — By J. E. McBRIDE, February, 1945, Page 70.
"Plants, Design and Operation of Modern Sintering" — By C. J. DUBY, May, 1945, Page 39.
"Power on Existing Cold Strip Mills, Increasing the" — By F. R. BURT and B. J. AUBURN, April, 1945, Page 46.
"Process Control in the Production of Sulphur Steel" — By G. A. FERRIS and H. CLARK, July, 1945, Page 37.
"Production of Light-Weight Blast Furnace Slag" — By H. O. WICKS, July, 1945, Page 71.
"Progress in Switchgear Engineering" — By M. H. HOBBS, August, 1945, Page 62.
"Protection for A-c and D-c Motors" — By C. E. HOMER, September, 1945, Page 70.
"Protection for Mill-Type D-c Auxiliary Motors, Overload" — By G. A. MOFFETT, December, 1945, Page 67.
"Protection for Steel Plant Systems, Relay" — By C. L. EICHENBERG, July 1945, Page 46.

Q

"Quality Control Testing of Semi-Finished Bars" — By E. W. MAHANEY and D. W. LLOYD, November, 1945, Page 48.

R

"Radiant Tube Heating, Tin Fusion by" — HOWARD L. HALSTEAD, August, 1945, Page 49.
"Rectifier Installation at Alan Wood Steel Company, The" — By A. D. HOWRY, July, 1945, Page 62.
"Rectifiers in the Steel Industry" — By F. MOHLER, October, 1945, Page 66.
"Refractories Performance Records" — By MERVIN A. FAY, September, 1945, Page 101.
"Regulating Systems, Rototrol" — By A. W. KIMBALL, November, 1945, Page 80.
"Relay Protection for Steel Plant Systems" — By C. L. EICHENBERG, July, 1945, Page 46.
"Remote Control, Something New in" — By T. J. KAUFFELD, April, 1945, Page 61.
"Reversing Regenerative Furnaces" — By J. R. GREEN and J. P. VOLLRATH, April, 1945, Page 67.
"Roll Designing, Structural Mills and Structural" — By ROSS E. BEYNON, February, 1945, Page 35.
"Roll Manufacture and Application" — By A. E. MURTON, November, 1945, Page 51.
"Rolling Mill Guides" — By WADE F. HOFFMAN, November, 1945, Page 69.
"Rolling Mills, Billet Preparation for" — By F. F. CAMBEST, June, 1945, Page 59.
"Rolls, Salvaging Forged Alloy Steel" — By H. L. WATSON, Jr., December, 1945, Page 55.
"Rotary Hearth Furnaces, Developments in" — By J. H. LOUX, July, 1945, Page 52.
"Rototrol Regulating Systems" — By A. W. KIMBALL, November, 1945, Page 80.

S

"Safety Practices" — By R. L. BEESWY, October, 1945, Page 77.
"Safety Procedure Cleaning and Repairing Tanks, Gas Holders, Vessels and Lines" — August, 1945, Page 81.
"Salvaging Forged Alloy Steel Rolls" — By H. L. WATSON, Jr., December, 1945, Page 55.
"Selection and Maintenance of Magnetic Brakes" — By A. E. LILLQUIST, February, 1945, Page 53.
"Shaft Currents May Cause Bearing Failure" — By D. B. HOOVER, September, 1945, Page 72.
"Sintering Plants, Design and Operation of Modern" — By C. J. DUBY, May, 1945, Page 39.
"Skip Hoist — II, The Blast Furnace" — By GORDON FOX, March, 1945, Page 55.
"Slabbing Mill at Homestead, The Universal" — By A. G. ERICSON, March, 1945, Page 35.
"Slag, Production of Light-Weight Blast Furnace" — By H. O. WICKS, July, 1945, Page 71.
"Some Developments in Modern Transformer Design" — By W. W. SATTERLEE, June, 1945, Page 62.
"Some Developments in Oxyacetylene Applications" — By G. E. BELLEW, October, 1945, Page 62.
"Some Factors in the Production of Electrolytic Tin Plate" — By T. G. TIMBY, August, 1945, Page 40.

"Some Production and Maintenance Instruments" — By CLYDE S. CASSELS, September, 1945, Page 97.
"Something New In Remote Control" — By T. J. KAUFFELD, April, 1945, Page 61.
"Standard Design for Crane Shaft Couplings, A. I. S. E. — September, 1945, Page 90.
"Steam-Electric Generating Stations, Mechanical Maintenance in" — By G. A. PORTER, September, 1945, Page 80.
"Steel for Subsequent Coating, Cleaning" — NELSON E. COOK, April, 1945, Page 53.
"Steel for Subsequent Coatings, Cleaning" — By J. J. DUFFY, Jr., April, 1945, Page 55.
"Steel Industry, A History of the Iron and" — By F. C. FARRELL, January, 1945, Page 99.
"Steel Industry During 1944, Developments in the Iron and" — By W. H. BURR, January, 1945, Page 80.
"Steel Industry on the Niagara Frontier, The Iron and" — By E. F. ENTWISLE, January, 1945, Page 93.
"Steel Manufacture, The Mechanical Phase of Open Hearth" — By FOLKE SUNDBLAD, August, 1945, Page 51.
"Steel, New Seamless Tube Mill for Pittsburgh" — April, 1945, Page 78.
"Steel Plant, Additives in Oil for the" — By C. E. PRITCHARD, March, 1945, Page 75.
"Steel Plant Maintenance" — By D. W. McLEAN, September, 1945, Page 75.
"Steel Plant Maintenance, Low Temperature Welding in" — By R. D. WASSERMAN, March, 1945, Page 70.
"Steel Plant Maintenance, Welding and Cutting in" — By S. D. BAUMER, February, 1945, Page 80.
"Steel Plant Welding" — By W. K. SIMON, September, 1945, Page 92.
"Steel, Process Control in the Production of Sulphur" — By G. A. FERRIS and H. CLARK, July, 1945, Page 37.
"Steel, The Flash Welding of" — By J. C. BARRETT, December, 1945, Page 103.
"Steels, The Accelerated Cooling of Cast" — By J. M. DUGAN and G. D. GRIFFITHS, January, 1945, Page 68.
"Storage and Handling of Lubricants" — By L. E. LOVITT, September, 1945, Page 52.
"Stoves, The Performance of Large Hot Blast" — By B. B. FROST, February, 1945, Page 64.
"Stream Conservation Means to the Iron and Steel Industry, What" — By J. R. HOFFERT, July, 1945, Page 77.
"Strip Mills, Increasing the Power on Existing Cold" — By F. R. BURT and B. J. AUBURN, April, 1945, Page 46.
"Structural Mills and Structural Roll Designing" — By ROSS E. BEYNON, February, 1945, Page 35.
"Sulphur Steel, Process Control in the Production of" — By G. A. FERRIS and H. CLARK, July, 1945, Page 37.
"Switchgear Engineering, Progress in" — By M. H. HOBBS, August, 1945, Page 62.
"Symposium — Cleaning Steel" — April, 1945, Page 53.
"Symposium — Disposition of Coke Oven Gas and Blast Furnace Gas" — By PAUL E. LEISS, R. A. LYTLE, HAROLD C. COX, H. B. HELM and L. F. KOPSA, August, 1945, Page 71.

T

"Tanks, Gas Holders, Vessels and Lines, Safety Procedure Cleaning and Repairing" — August, 1945, Page 81.
"Telautograph Communication Service" — By WHITNEY HAYES, May, 1945 Page 75.
"Testing of Semi-Finished Bars, Quality Control" — By E. W. MAHANEY and D. W. LLOYD, November, 1945, Page 48.
"Theoretical Limiting Efficiency of Various Fuels in the Open Hearth" — By B. M. LARSEN and C. SIDDALL, December, 1945, Page 76.
"Tin Fusion by Radiant Tube Heating" — By HOWARD L. HALSTEAD, August, 1945, Page 49.
"Tin Plate, Some Factors in the Production of Electrolytic" — By T. G. TIMBY, August, 1945, Page 40.
"Tin Plate, The Outlook for Electrolytic" — By K. W. BRIGHTON, August, 1945, Page 37.
"Training of Heaters, The" — By L. T. PEARSALL and J. L. McHUGH, November, 1945, Page 59.
"Transfers, Cooling Beds and" — By CHARLES L. RAISIG, November, 1945, Page 37.
"Transformer Design, Some Developments in Modern" — By W. W. SATTERLEE, June, 1945, Page 62.
"Tube Mill for Pittsburgh Steel, New Seamless" — April, 1945, Page 78.
"Tube Mills, Modern Electric Weld" — By JOHN LUCAS, October, 1945, Page 50.
"Turbines for Blast Furnace Blowers, Gas" — By PAUL R. SIDLER, April, 1945, Page 35.

U

"Uni-Temper Mill and Process, The" — By M. D. STONE, January, 1945, Page 37.
"Universal Slabbing Mill at Homestead, The" — By A. G. ERICSON, March, 1945, Page 35.
"Unusual Applications of Motor Control" — By P. B. HARWOOD, June, 1945, Page 50.

V

"Vacuum, Cleaning Open Hearth Checkers by" — By A. F. FRANZ, September, 1945, Page 108.

W

"Water Supply" — By C. D. FOIGHT, September, 1945, Page 57.
"Welding and Cutting in Steel Plant Maintenance" — By S. D. BAUMER, February, 1945, Page 80.
"Welding in Steel Plant Maintenance, Aluminum Bronze" — By F. E. GARRIOTT, December, 1945, Page 98.
"Welding in Steel Plant Maintenance, Low Temperature" — By R. D. WASSERMAN, March, 1945, Page 70.
"Welding of Steel, The Flash" — By J. C. BARRETT, December, 1945, Page 103.
"Welding, Steel Plant" — By W. K. SIMON, September, 1945, Page 92.
"What Stream Conservation Means to the Iron and Steel Industry" — By J. R. HOFFERT, July, 1945, Page 77.

"1944, Developments in the Iron and Steel Industry During" — By W. H. BURR, January, 1945, Page 80.